

$$f(m) \begin{cases} r_{n-1} & [n] > r \\ r_{n+r} & [n] \leq r \end{cases}$$

$$y = \sqrt{f(m) - n + 1} \quad (1) \quad (2)$$

$$f(m+1) \begin{cases} r_n & n > \omega \longrightarrow r_n \geq n \checkmark \\ r_{n+r} & n < \omega \end{cases}$$

$$D_f = \left[-\frac{r}{r}, +\infty \right) \checkmark$$

$$\begin{aligned} r_{n+r} &> n \\ r_n &\geq -\varepsilon \\ n &\geq -\frac{r}{r} \end{aligned}$$

$$\frac{r r_n r + r r_n r + (r n + r)}{(r_n + r + 1)^2} = \frac{r}{(r_n + 1)^2}$$

(1) (2)

ساده شده عبارت هم
مربوط استیم ت
صفتی آفر...

$$\begin{aligned} r_{n+1} &\neq 0 \\ n &\neq -\frac{1}{r} \end{aligned}$$

$$D_f = \mathbb{R} - \left\{ -\frac{1}{r} \right\} \checkmark$$

$$g(m) = m + c \quad f(m) = \begin{cases} \frac{m^r + r m^r - m - r}{m^r - 1} & m \neq \pm 1 \\ \frac{a m + r}{m + b} & m = \pm 1 \end{cases} \quad (1) \quad (2)$$

تابع اولی به نام تابع دوم

$$\begin{aligned} m = \pm 1 \quad c-1 &= \frac{r-a}{b-1} = 1 \quad \longleftarrow \text{تابع اولی به نام تابع دوم} \checkmark \\ c+1 &= \frac{r+a}{b+1} = r \quad \longrightarrow \quad b-1 = r-a \\ &\quad \quad \quad r+a = r b + r \end{aligned}$$

$$n \neq \pm 1$$

$$\frac{r r_n r + r r_n r - n - r}{r_n^r - 1} = n + c$$

$$\frac{r+r}{r_n} = \frac{r-r}{r_n}$$

$$a = \frac{r}{r} \checkmark$$

$$b = \frac{r}{r} \checkmark$$

$$\frac{r r_n r + r r_n r - n - r}{r_n^r - 1} = \frac{r r_n r - n - r}{r_n^r - 1} + \frac{c r_n^r - c}{r_n^r - 1}$$

$$c = r \checkmark$$

$$b + c = \frac{r}{r} \checkmark$$

$\text{int} \leftarrow \text{pop}(\text{re})$
 $\text{re} \leftarrow \text{pop}(\text{re})$

②

$$\frac{x^{n-1}}{x^n + ax + b} = \frac{(n+1)(x-1)}{(x-c)(x-1)} = 1 \frac{n+1}{(x-c)}$$

$$(x-1)^5 = x^5 - 5x^4 + 10x^3 - 10x^2 + 5x - 1$$

$$a + b + c = n$$

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Q

$$(-1-x)^r (-x) = -x (1+x)^r$$

2 9

$$1 - r_m = r$$
$$-r = r_m$$
$$r = -1$$

$$r = r_n$$

$$n = 1$$

$$\begin{aligned} f_1(1) &= 1^e \\ f_1(1) &= 1 \end{aligned} \quad \left. \begin{array}{l} \checkmark \\ \checkmark \end{array} \right\} \textcircled{\omega}$$

$$f(9) = f(1 \neq \sqrt{e}) = 209 + 17 = 226$$

(2) (v)

$$f(m) = m^3 + m$$

(2) (1)

$$f(m-1) = (m-1)^3 + (m-1)$$

$$f(1-m) = (1-m)^3 + (1-m)$$

$$f(m-1) + f(1-m) = (m-1)^3 + (m-1) + (1-m)^3 + (1-m) = 0$$

و چون $f(x)$ و $f(-x)$ زوج و فرد است پس $f(x) = 0$ و $f(-x) = 0$

$$f(m) = \sqrt{m^2 - 2a} + k - 1$$

$$b - 2 \geq 0$$

$$b > 2$$

$$2 - 2a \geq 0$$

$$2 \geq 2a$$

$$\frac{2}{2} \geq a$$

(2) (9)

$$g(m) = \sqrt{b - 2m} + 2k$$

$$f - g = \{(1, k)\} \rightarrow D_f \cap D_g = \{1\}$$

$$2\sqrt{m^2 - 2a} + 2k - 1 - \sqrt{b - 2m} - 2k = 0 \quad (1, k)$$

$$2\sqrt{m^2 - 2a} + 2k - 1 - \sqrt{b - 2m} - 2k = 0$$

$$\sqrt{m^2 - 2a} = \frac{\sqrt{b - 2m}}{2}$$

$$2a = 2$$

$$b = 2$$

$$a = \frac{2}{2}$$

$$k = 1$$

$$2 - 2 + 1 = 1$$

$$(-\infty, m]$$

$$f(m) = \sqrt{m - 2} + m$$

$$D_f \cap D_g = [-1, 2]$$

(2) (10)

$$g(m) = \sqrt{m + 2}$$

$$[-1, +\infty)$$

$$m = 2$$

$$f-g = \sqrt{m-a} + n - \sqrt{r_n+r}$$

$\begin{matrix} \downarrow m = r \\ n = v \end{matrix}$

$$\sqrt{v-r} + n - \sqrt{a} = 9\sqrt{r}$$

$$r + a = 1\sqrt{r}$$

$$a = 1\sqrt{r} \quad \checkmark$$

$$m+a = \boxed{v + 1\sqrt{r} \quad \checkmark}$$

$$y = \frac{r(1n^r + 1r_n^r + 4n+1)}{(r_n+1)^r} = \frac{r(r_n+1)^r}{(r_n+1)^r} = \frac{r}{r_n+1}$$

$$\Rightarrow Dy = 1R - \left\{ \frac{1}{r} \right\}$$